CONFIDENTIAL

NPIC/P&DS

02097

Post Office Box 6788
Fort Davis Station
Washington, D. C. 20020

REGISTERED

(See attached list for names of Prospective Bidders)

19 AUG 1966

Attention:

Subject : Request for Proposal No. RD-2-67
Project No. 02097

Gentlemen:

This office has a requirement for the design and fabrication of Advanced Anamorphic Eyepieces. Your review of the enclosed "DEVELOPMENT OBJECTIVES - ADVANCED ANAMORPHIC EYEPIECES" is requested and a technical proposal and cost and price quotation on this program is solicited.

Prior to the submission of your proposal if a conference is desired between your technical representatives and the technical representatives of the Government you may arrange for such a conference by contacting [redacted]

Your technical proposal and cost quotation should be submitted no later than 30 September 1966 unless a later date is requested of and authorized by [redacted] It is requested that your proposal be accompanied by a cost analysis breakdown to assist in evaluating your quotation. This cost breakdown may be prepared on Form DD-633 or a substantially similar form. Two copies of the proposal should be forwarded directly to the Contracting Officer. Three copies should be forwarded to the Technical Representative of the Contracting Officer at the following address:

[redacted]
Post Office Box 8031
Southwest Station
Washington, D. C. 20024

The enclosed development objectives may be considered DE-CLASSIFIED when removed from this covering letter which may NOT be de-classified. Government interest may be shown, however, association of this Government activity with this request is classified CONFIDENTIAL. In this

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connection, knowledge of the identity of the particular Government activity which the undersigned represents must be restricted to the least number of persons possible and then only to those who have been authorized in writing by this activity to have access to classified information. Such identity shall be disclosed only on a verbal basis and shall never appear in writing in any of your documents. Any correspondence initiated by you should not make reference therein to the undersigned. "Secrecy Agreements" should be signed by any individual in your company who will have knowledge of this request.

If it is desired to proceed with this contemplated program with your company, the authorization will be effected by the issuance of the appropriate type of Government Contract.

At the time of submitting the requested proposal(s) please return this letter, together with all enclosures, to the undersigned at the address stipulated above, Attention: [redacted] If you do not elect to submit a proposal, this letter and all correspondence should also be returned.

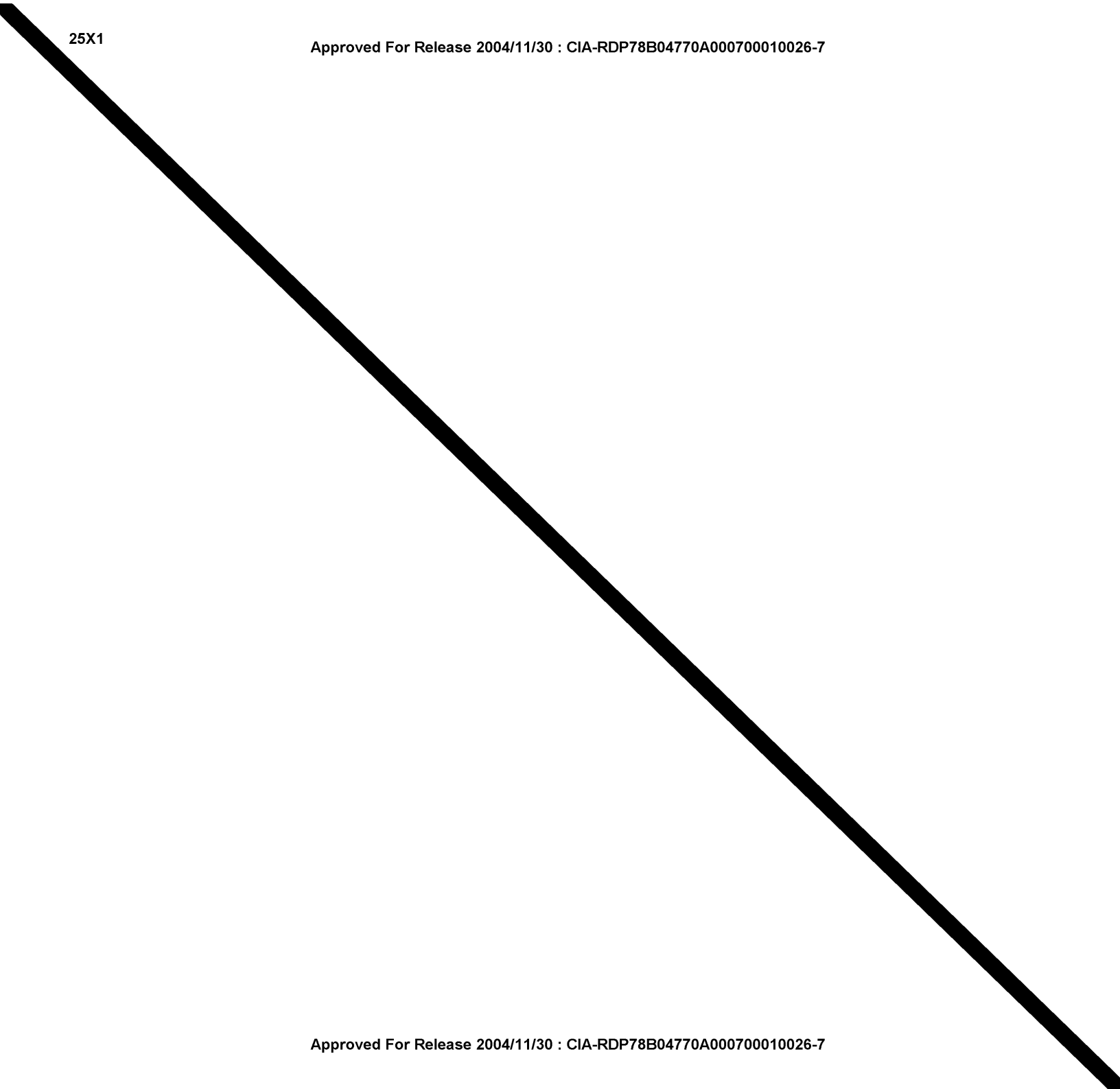
Very truly yours,

[redacted]
Contracting Officer

Enclosures:
Development Objectives
(2 copies)

Distribution:
Original - Addressee
1 - NPIC/Reg. Office
1 - NPIC/ PSIC
1 - PD File (REF-RD-2-67)
1 - NPIC File

LB/SS/NPIC [redacted] (17 Aug 66)



Approved For Release 2004/11/30 : CIA-RDP78B04770A000700010026-7

2 August 1966

DEVELOPMENT OBJECTIVES

ADVANCED ANAMORPHIC EYEPIECES

1. INTRODUCTION. These development objectives describe the requirements to be met in the design and fabrication of a prototype Anamorphic System for the [redacted] High Power Stereoviewer (Twin Dynazoom).

2. CONCEPT. This development will produce an anamorphic system that can quickly and simply be attached to and removed from the High Power Stereoviewer. Although the existing instrument has found general operator acceptance, an independent anamorphic magnification capability is required for each optical path. This anamorphic system must not significantly reduce the optical performance of the basic stereoviewer, but must be simple to operate and be reproducible in production quantities at a realistic price.

3. ADMINISTRATION.

3.1. Evaluation and selection of the successful proposal will be based on cost, indications of the contractor's commitment to fulfill these objectives, and the experience and ability indicated by the inclusion of relevant specifics.

3.2. Proposals should discuss problem areas and schedule major steps in the production process.

3.3. The program will be divided into two phases: Phase I will be the Design Study and Phase II will be the Fabrication Phase. Initiation of Phase II will be predicted upon the successful completion of the design study.

4. GENERAL DESCRIPTION. The [redacted] High Power Stereoviewer is used in conjunction with the [redacted] objective lenses and compensating eyepieces. The objective magnifications are 3X, 6X, and 10X and the compensating eyepiece magnifications are 6X and 10X. In addition, a [redacted] 1.3X objective is being used. This development will add an additional magnification range to one axis of the optical field.

5. REQUIREMENTS.

5.1. Existing Instrument. The basic High Power Stereoviewer is described in [redacted] publication Number 53-335; however, a significant improvement in the optical performance has been achieved utilizing the above mentioned [redacted] objective lenses and compensating eyepieces. The anamorphic system must not significantly degrade the optical performance of this combination.

5.2. Optical.

5.2.1. Anamorphic Range. The system shall have a continuously variable anamorphic magnification from 1X to 2.2.X; i.e., the anamorphic ratio (ratio of the magnification of two perpendicular meridians of the optical field) shall be from 1:1 to 1:2.2.

5.2.2. Field. The maximum loss of field must not exceed 5% of the normal instrument's total field. The optical field must be as flat as the field of the instrument without the addition of the anamorphic system.

5.2.3. Anamorphic Axis Orientation. The direction of the anamorphic magnification (anamorphic axis) shall be rotatable through 360°.

5.3. Physical Configuration. The anamorphic system must be as compact as possible and must incorporate superior human engineering features. Simplicity of design and operation is of upmost importance. Specifically, the eyepoint shall not be extended more than three inches from the position of the present eyepoint and an operator wearing glasses must be able to operate the instrument. An estimate of the size and weight of the contemplated system must be given in the proposal and an artist's concept must be included.

5.4. Interchangeability. The system must be configured to allow disassembly of the anamorphic system from the stereoviewer within five minutes without the use of special tools. Accommodation must be made for utilizing the system on any [redacted] High Power Stereoviewer.

5.5. Costs. The proposal must include the cost of producing one prototype and an estimate of the costs of building 5, 10, 20, and 30 units.

5.6. Drawings. Design and fabrication drawings are required.

5.7. Operator's Manual. A comprehensive operator's manual must be included with the prototype and must be in a form which can be easily updated for the production model.

5.8. Government-Furnished Equipment. The successful contractor will be furnished one High Power Stereoviewer as Government Furnished Equipment.